# ADDITIONAL SHEET

**CCR#:** 04-0407        **Rev:** —        **Originator:** Danny Huang
**Telephone:** 301-925-0837        **Office:** 3014C
**Title of Change:** Release of Tomcat 4.1.24 Configuration Patch 02 to DAACs

This delivery contains patch "tomcat4.1.24_config_patch_v02.tar.gz" (checksum: 1028175292, Size: 7613), a configuration update for the Tomcat 4.1.24 COTS product at all sites.  The patch fixes the following security-related NCR:

| NCR Number | Subsystem | Sev | State | Site | Description |
|------------|-----------|-----|-------|------|-------------|
| ECSed40811 | DPL | 2 | V | NSIDC | |

The patch is to be installed on the following machines:

| Site | Host Name | Subsystem | Host Function |
|------|-----------|-----------|---------------|
| LPDAAC | e0dps01 | DPL/HEG | Data Pool Web Server |
| GSFC | g0dps01 | DPL/HEG | Data Pool Web Server |
| LaRC | l0dps01 | DPL/HEG | Data Pool Web Server |
| NSIDC | n0dps01 | DPL/HEG | Data Pool Web Server |

It was tested successfully in the PVC AND VATC.  (See test results below.)

# INSTALLATION INSTRUCTIONS for Tomcat 4.1.24 configuration patch 02

The following are the procedures to install Tomcat 4.1.24 configuration patch v02.

## Prerequisites

1. Tomcat 4.1.24 on the target Data Pool SUN machines.

2. Apache 1.3.29 on the target Data Pool SUN machines.

3. The delivery tar file, tomcat4.1.24_config_patch_v02.tar.gz (Checksum: 1028175292, Size: 7613) is in a staging directory accessible by the Data Pool machine.

4. Estimated installation time: 15 minutes for a novice operator.

## Uninstall Instructions

None

## Installation Instructions

1. Logon to Data Pool machine as <u>root</u>

2. Back up file **/usr/ecs/OPS/COTS/tomcat-4.1.24_datapool/conf/server.xml**

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3. Back up directory
   `/usr/ecs/OPS/COTS/tomcat4.1.24_datapool/modjk_config_for_DPL`

4. Unpack the tar file into Tomcat 4.1.24's home directory

   `# cd /usr/ecs/OPS/COTS/tomcat-4.1.24_datapool ⏎`

   `# cp <stagingdir>/tomcat4.1.24_config_patch_v02.tar.gz . ⏎`

   `# gunzip –c tomcat4.1.24_config_patch_v02.tar.gz | tar xvf – ⏎`

   It overwrites the server.xml file and modjk_config_for_DPL directory and all
   mod_jk.conf.<*site*>_<*port number*> files under this directory.

5. Ensure the access permissions of directory "conf" is 775

   `# ls –l ⏎`

6. Replace the mod_jk.conf file that your Tomcat presently uses with the contents of an
   appropriate file from the new modjk_config_for_DPL subdirectory.  The correct
   source file is the one whose name reflects your site and the port number that your
   Tomcat is using to communicate with Apache.  The target file must be named
   "mod_jk.conf".

   `# cd /usr/ecs/OPS/COTS/tomcat-4.1.24_datapool ⏎`

   `# cd modjk_config_for_DPL ⏎`

   `# cp mod_jk.conf.<site>_<port number> ../conf/auto/mod_jk.conf ⏎`

7. Make sure the IP address in the mod_jk.conf file reflects your site's "inside firewall
   B0 address".

   `# vi mod_jk.conf  ⏎`

   Go to line 244 and line 284 to ensure the "inside B0 firewall address" is correct.

8. Stop Apache 1.3.29 and Tomcat 4.1.24.

   `# cd /etc/init.d ⏎`

   `# ./apache-1.3.29_datapool_<MODE> stop ⏎`

   `#./tomcat4_datapool_OPS stop ⏎`

9. Start the Tomcat 4.1.24 and Apache 1.3.29.

   `# cd /etc/init.d ⏎`

   `#./tomcat4_datapool_OPS start ⏎`

   `# ./apache-1.3.29_datapool_<MODE> restart ⏎`

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## Custom Code Integration

Use ECS-Assistant to update the following configuration parameter in each TSx mode:

* Set the value of ${HTTPHOST} to *<host>.<site>.ecs.nasa.gov*

This will ensure two parameters, EcDlWebAccess httpHost and webglisHost in EcDIWebaccess.properties, are properly re-configured to allow access to the Java Applet page (Globe search page) in Datapool drill down from inside the firewall.

For OPS, the value of ${HTTPHOST} should already be set as *<host>u.ecs.nasa.gov*, which allows access to the Globe search page in OPS from outside the firewall.

## Interrogation Checkout

None

## Back-Out Instructions

Execute the following steps in case you need to remove this patch:

1. Stop Tomcat 4.1.24 and the Apache 1.3.29 that is using it:

   ```
   # /etc/init.d/tomcat4_datapool_OPS stop ↵
   ```

   ```
   # /etc/init.d/apache_datapool-1.3.29_<MODE> stop ↵
   ```

2. Change directory to Tomcat 4.1.24 home.

   ```
   # cd /usr/ecs/OPS/COTS/tomcat-4.1.24_datapool ↵
   ```

3. Restore the directory modjk_config_for_DPL from backup.

4. Restore the file server.xml from backup.

5. Restore the mod_jk.conf file in directory /usr/ecs/OPS/COTS/tomcat-4.1.24_datapool/conf/auto that was saved when executing the instruction in section 15.4.3 in 914-TDA-276.

6. Restart Apache and Tomcat 4.1.24

   ```
   # /etc/init.d/tomcat4_datapool_OPS start ↵
   ```

   ```
   # /etc/init.d/apache-1.3.29_datapool_<MODE> start ↵
   ```

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## Test Procedures and Test Results

**Date(s) of Test:** 08/06/2004

**Title:** Test Plan For NCR# 40811

**Test Engineer:** Rosdiana Ginocchi      **Site:** PVC and EDF

**OBJECTIVE:** The purpose of this test is to verify that the tomcat and the web access still function properly after the tomcat-mod_jk.conf and EcDlWebaccess.properties files have been changed (see ncr#40811).

**INITIALIZATION:** All necessary hardware, servers, GUIs, and workstations are up and operational.

**APPROACH:** Sections may be done in any order.  It is assumed that users are familiar with the system. For new or difficult functions, additional action/response detail may be included or attached.

**KEY:** P = Pass; F = Fail; NT = Not Tested, #FW = # Of Firewall

| # | Test Item/Section Heading | Expected Results | P | F | NT |
|---|---|---|---|---|---|
| 1. | Verify that access to the DPL Web Access from the outside of PVC lab for TS1 and TS2 modes are denied.<br><br>- Access the DPL Web Access for TS1 and TS2 modes from outside of PVC lab (p2dps01u.ecs.nasa.gov:22000/<MODE>/ home).<br>- Display the globe on spatial search page from outside of PVC lab for TS1 and TS2 modes. | - The access to the DPL Web Access from outside PVC lab for TS1 and TS2 modes were denied.<br><br>- Unable to display the globe on spatial search page from outside of PVC lab for TS1 and TS2 modes | P<br><br><br>P | | |
| 2. | Verify that access to the DPL Web Access from the inside of PVC lab for TS1 and TS2 modes are successfully.<br><br>- Access the DPL Web Access for TS1 and TS2 modes from inside of PVC lab (p2dps01.pvc.ecs.nasa.gov:22000/<MODE>/home).<br>- Display the globe correctly on spatial search page from inside of PVC lab for TS1 and TS2 modes. | - The access to the DPL Web Access from inside PVC lab for TS1 and TS2 modes are successfully.<br><br>- The globe is displayed correctly on spatial search page from inside of PVC lab for TS1 and TS2 modes. | P<br><br><br>P | | |
| 3. | Verify that access to the DPL Web Access from the outside and inside of PVC lab for OPS mode is successfully.<br>- Access the DPL Web Access for OPS mode from outside and inside of PVC lab (p2dps01u.ecs.nasa.gov:22000/<MODE>/ home). | - The access to the DPL Web Access from outside and inside PVC lab for OPS mode was successfully. | P | | |

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| # | Test Item/Section Heading | Expected Results | P | F | NT |
|---|---|---|---|---|---|
| | - Display the globe on spatial search page from outside and inside of PVC lab for OPS mode. | The globe is displayed correctly on spatial search page from outside and inside of PVC lab for OPS mode. | P | | |
| 4. | Verify that all the elements in the Tomcat Web Application Manager are worked properly if it is accessed from inside of PVC lab.<br>- Access the Tomcat Web Application Manager from the inside of PVC lab (p2dps01.pvc.ecs.nasa.gov:22000/manager/html)<br>- stop the tomcat.<br>- Start the tomcat.<br>- Reload the tomcat. | All the elements (stop, start and reload functions) are worked properly in the Tomcat Web Application Manager | P | | |
| 5. | Verify that the user is unable to access the Tomcat Web Application Manager from outside of the PVC lab (firewall) | The access to the Tomcat Web Application Manager is denied from outside of PVC lab. | P | | |
| 6. | Verify that the user is unable to access the Tomcat Web Application Manager from port # 22500 in the PVC lab.<br><br>Access the Tomcat Web Application Manager from port# 22500 in the PVC lab (p2dps01.pvc.ecs.nasa.gov:22500/manager/html) | The access to the Tomcat Web Application Manager is denied from port# 22500 in the PVC lab. | P | | |

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